



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D2807-041
Job Sheet 198452



Part No: D2807-041

Job Qty: 12 pcs

Part Name: Prop Assembly



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 7/30/19

Job Tracking No:

Due Date: 8/15/19

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG REV E IPP: D 07.11.12 ecn1019, replaces D2807 EC verified by DD IPP Rev:E 08-02-12 ECN 1111 DD verified by: ec

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard Setup Hrs	Run Hrs	Workcenter/Supplier	Workcenter / Supplier Lead Time	Sign-off
100	Purchasing <i>LS Tech</i>	12 pcs		8/15/19	0.00	0.00	Purchasing - 1		
							Purchasing - 2		
							Purchasing - 3		
	<i>2019-08-01 POH8044168</i>				<i>X12</i>				<i>DP</i> AUG 08 2019
110	Packaging 2-1 - Receive - B4B	12 pcs		8/15/19	0.00	0.00	Packaging 2 - 1 - B4B		
							Packaging 2 - 2 - B4B		
							Packaging 2 - 3 - B4B		
							Packaging 2 - 5 - B4B		
							Packaging 2 - 4 - B4B		
							Packaging 2 - 6 - B4B		
							Packaging 2 - 7 - B4B		
							Packaging 2 - 8 - B4B		
							Packaging 2 - 9 - B4B		
							Packaging 2 - 10 - B4B		
							Packaging 2 - 11 - B4B		
							Packaging 2 - 12 - B4B		
							Packaging 2 - 13 - B4B		
							Packaging 2 - 14 - B4B		
							Packaging 2 - 15 - B4B		
							Packaging 2 - 16 - B4B		
							Packaging 2 - 17 - B4B		
							Packaging 2 - 18 - B4B		
							Packaging 2 - 19 - B4B		
							Packaging 2 - 20 - B4B		
							Packaging 2 - 21 - B4B		
							Packaging 2 - 22 - B4B		
							Packaging 2 - 23 - B4B		
							Packaging 2 - 24 - B4B		
							Packaging 2 - 25 - B4B		
							Packaging 2 - 26 - B4B		
							Packaging 2 - 27 - B4B		

</



Container No: S204053



Part: D2807 - 041

Job No: 198452

Serial No/Batch: S204053

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL : 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 08/08/19

Plex 7/30/19 8:24 AM Dart.lajeunesse.marie

					Packaging 2 - 28 - B4B	
					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	
					Packaging 2 - 32 - B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
120 QC 6	12 pcs	8/15/19	0.00 0.00		QC 6 - 9	
					QC 6 - 68	
					QC 6 - 61	
					QC 6 - 40	
					QC 6 - 81	
130 Small Fab - 2 - B4B	12 pcs	8/15/19	0.00 0.24		Small Fab - 1 - B4B	
					Small Fab - 2 - B4B	
					Small Fab - 3 - B4B	
					Small Fab - 4 - B4B	
					Small Fab - 5 - B4B	
					Small Fab - 6 - B4B	
					Small Fab - 7 - B4B	
140 QC 5	12 pcs	8/15/19	0.00 0.00		QC 5 - 10	
					QC 5 - 12	
					QC 5 - 17	
					QC 5 - 18	
					QC 5 - 19	
					QC 5 - 22	
					QC 5 - 24	
					QC 5 - 3	
					QC 5 - 43	
					QC 5 - 49	
					QC 5 - 51	
					QC 5 - 58	
					QC 5 - 68	
					QC 5 - 9	
					QC 5 - 50	
					QC 5 - 30	
					QC 5 - 40	
					QC 5 - 61	
					QC 5 - 81	
150 Packaging 3-1 - Stock - B4B	12 pcs	8/15/19	0.00 0.00		Packaging 3 - 1 - B4B	
					Packaging 3 - 2 - B4B	
					Packaging 3 - 3 - B4B	
					Packaging 3 - 4 - B4B	
					Packaging 3 - 5 - B4B	
					Packaging 3 - 6 - B4B	
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	
					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	

DAS
61
9-89

NOV 28 2019

DAS
81
9-89

JAN 20 2020

DAS
2
9-89

				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	
				Packaging 3 - 23 - B4B	
				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
160 QC 21 - SA	12 pcs	8/15/19	0.00 0.00	QC 21 - SA - 21	DAS 21 JAN 21 2020
				QC 21 - SA - 70	
				QC 21 - SA - 53	
Part Op 100 - Purchasing - Issue P/O: <u>44168</u> Order as per Dwg D2807 Possible supplier: Lift Support Descriptions: Technologies, Saskatoon, Canada P/N 6/15-164/50-115N 110 - Receive & Inspect for Damage & Mat'l Certs - Ensure Material Release Note is attached 120 - QC6- All purchased or subcontracted products 130 - Small Fab - 1-install D3671-1 as per dwg D2807 140 - QC5- Inspect part completeness to step on W/O 150 - Identify as per dwg & Stock Location: _____ 160 - QC21- Final Inspection - Work Order Release					
Job BOM					
Part / Item	Component Name	Quantity	Operation	Container	
6/15-164/50-115N	Gas Spring D2807-041	12 pcs (1 ea)	100-Purchasing	5204052	
D3671-1	Placard	12 pcs (1 ea)	130-Small Fab - 2 - B4B	5163851	
Job Allocations					
Operation	Component Part	Required	Inventory	Allocated	
100-Purchasing	6/15-164/50-115N	12	0	0	
130-Small Fab - 2 - B4B	D3671-1	12	35	0	
Part Specifications					
Specifications could not be found.					

Plex 7/30/19 8:24 AM Dart.lajeunesse.marie

SPECIFICATION CONTROL DRAWING

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 198452

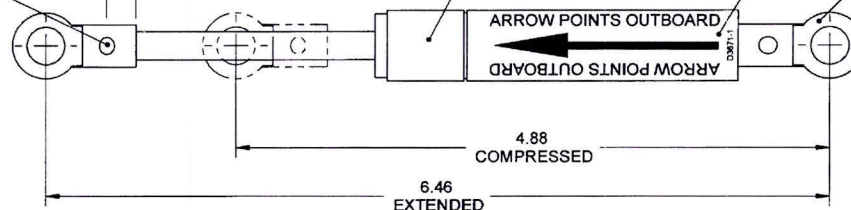
(ALTERNATE ONLY)
CRIMP 0.015-0.025 DEEP
WITH $\phi 0.375$ TOOL AT
2000psi (REF), TYP TWO
SIDES PER LUG

0.24 TO CRIMP
(TYP)

D2807-5
OR
(ALTERNATE ONLY) D2807-1

AFFIX D3671-1 PLACARD
ENSURE PLACARD DOES NOT
CONCEAL ANY TEXT OR MARKINGS
ON THE GAS SPRING

(ALTERNATE ONLY) D2807-3
BOTH ENDS



D2807-041 GAS SPRING

RELEASED

D2807-041 GAS SPRING ASSEMBLY PARTS LIST

QTY -041	PART NUMBER	DESCRIPTION
X	D2807-041	GAS SPRING ASSEMBLY
1	D2807-5	GAS SPRING
1	D3671-1	PLACARD

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.169 LBS
- 8) ALTERNATE PART: D2807-5 CAN BE MADE FROM ASSEMBLING D2807-1 (1) AND D2807-3 (2)
(WEIGHT: 0.176 LBS)

REV.	DESCRIPTION	BY	DATE
E	ADD D2807-5 GAS SPRING; D2807-1/-3 ASSEMBLY IS AN ALTERNATE TO D2807-5 GAS SPRING: UPDATE DIMENSIONS ON D2807-3	PH	07.12.28
D	ADDED D3671-1 PLACARD ADDED -041 ASSEMBLY UPDATED DWG	DC	07.09.27
C	CHANGE SPRING TO SS, ADD -3 LUG	CP	05.05.25
B	ADD FINISH	CP	05.03.16
A	NEW ISSUE	DS	00.11.03
DESIGN	DESIGN	DATE	07.12.28
DRAWN	DRAWN	DATE	07.12.28
CHECKED	CHECKED	DATE	07.12.28
MFG. APPR.	MFG. APPR.	DATE	07.12.28
APPROVED	APPROVED	DATE	07.12.28
DE APPR.	DE APPR.	DATE	07.12.28
DATE	DATE	DATE	07.12.28

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. D2807
REV. E
SHEET 1 OF 3
TITLE GAS SPRING
SCALE NTS

COPYRIGHT © 2000 BY DART AEROSPACE LTD
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS
NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT
WRITTEN PERMISSION FROM DART AEROSPACE LTD

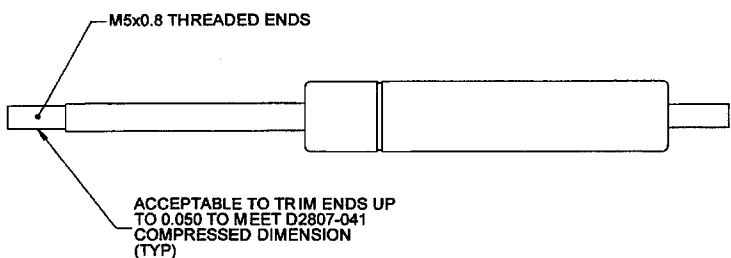
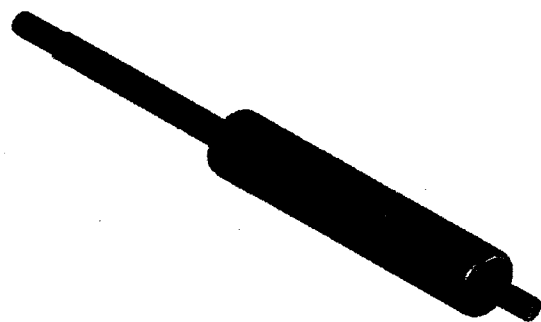
8 7 6 5 4 3 2 1

D

C

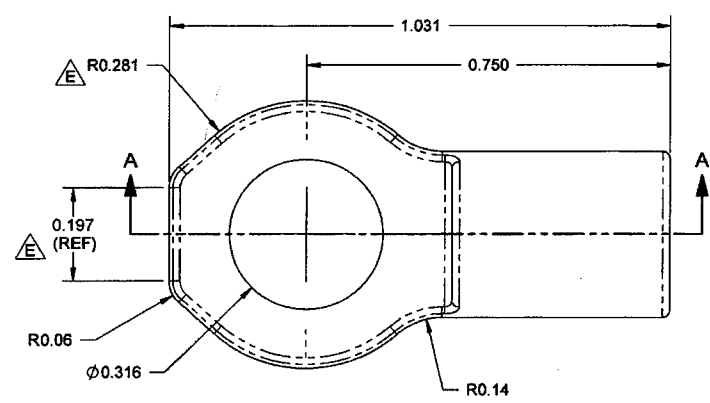
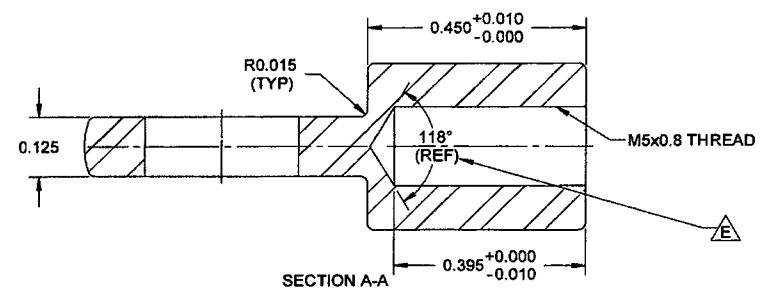
B

A



D2807-1 GAS SPRING
SCALE 1:1

- D2807-1 GAS SPRING NOTES:**
- 1) POSSIBLE SUPPLIER: ARVINMERITOR MOTION CONTROL SYSTEMS, LEICESTER, UK
(P/N SXF6S6050080S6L-115N)
(REF: 80MM LONG CYLINDER, 50MM STROKE, 115N LOAD)
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: N/A
 - 6) IDENTIFICATION: N/A
 - 7) WEIGHT: 0.144 LBS
 - 8) SPECIFICATION: SS GAS SPRING
ACCEPTABLE LOAD RANGE IS 25 LB (115 N) MIN TO 45 LB (200 N) MAX
M5x0.8 THREADS



D2807-3 LUG

- D2807-3 LUG NOTES:**
- 1) MATERIAL: AISI 303 ROUND BAR (REF. DART SPEC. M303R)
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.010 TO 0.015
 - 6) IDENTIFICATION: N/A
 - 7) WEIGHT: 0.016 LBS

DESIGN	PH	DART AEROSPACE LTD	
DRAWN	PH	HAWKESBURY, ONTARIO, CANADA	
CHECKED	LE	DRAWING NO. D2807	REV. E
MFG. APPR.	PH	TITLE GAS SPRING	SHEET 2 OF 3
APPROVED	PH	SCALE 4:1	
DE APPR.	PH		
DATE	07.12.28	COPYRIGHT © 2000 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

8 7 6 5 4 3 2 1

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: <u>198452</u> Part No. <u>D2807-041</u>	DISPOSITION Rework ☒ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☒ Quality ☐		
Date : <u>DEC 02 2019</u>	Sequence #: <u>140</u>	QTY Affected : <u>120F12</u>	MRB (QSI042) DAS 9 9-89 <u>19.12-02</u>	
Description Work Order Deviation Labels are not identify with correctly D2807-41 and are supposed to be D2807-041		Disposition - let supplier know that labels are incorrect - Or send back part ^{to supplier} so they can replace labels		Completed By Lead hand / Supervisor QC / QA Coordinator
Root Cause Operator ☐ Manufacturing Process ☒ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐ ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☒ Mislabeled		FAULT CATEGORY ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread		
Other/Details:				



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB044168



Supplier: LST001-VC
LS Technologies Inc.
1634 Saskatchewan Ave.
Saskatoon
SK
S7K 1P6 Canada
Phone: 306 683 5000
Fax: 306 683 6403

PO No: POHB044168
PO Date: 7/31/19
Due Date: 8/15/19
Purchase Order Revision:
Revision Date:
Ship-To Contact: Guerin, Kimberley
Phone: 613-632-5200 Ext: 298
kguerin@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pynt Terms: Net 30

Freight Terms:

Special Comments:

E-MAILED
2019-08-01

Items

Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	198452	6/15-164/50-115N			Gas Spring D2807-041 As per Dwg D2807 Rev. E	Firmed X12	-	8/15/19 AUG 08 2019	12 pcs	60 pcs 9-89	12 pcs	\$72.13/pcs	\$865.56
Grand Total:													\$865.56

Packing Slip

LS TECHNOLOGIES INC

1634 Saskatchewan Ave
Saskatoon, SK S7K 1P6

P.O. No.	Date	Invoice #
POHB044168	8/1/2019	20950

Bill to:
Dart Aerospace Ltd 1270 Aberdeen St. Hawkesbury, ON K6A 1K7

Ship to:
Main Finished Goods Location Dart Aerospace Ltd 1270 Aberdeen St. Hawkesbury, ON K6A 1K7

Ship	Via
8/1/2019	Fed-Ex

Qty	Description
12	D2807-041 #198452 Stainless Gas Spring (6/15-164/50-115N)
	Shipping Via FED EX Tracking # 775897470065
	RECEIVED AUG 08 2019 DART AEROSPACE LTD.

Order checked by :





LS Technologies Inc

1634 Saskatchewan Ave,
Saskatoon, SK S7K 1P6
Ph: (306) 683-5000 Fax: (306) 683-6403

Certificate of Compliance

Aug 2, 2019

DAS
61
9-89

This is to certify that the parts listed below meets specifications as required by your order.

12 Units : D2807-041 #198452 Stainless Gas Spring (6/15-164/50-115N)

Country of Manufacture: Canada

Date of Manufacture : July 2019

This product is ROHS compliant.

Purchase Order # POHB044168

Invoice # 20950

L S Technologies Inc Canada

A blue ink signature of Nolan Fehr, written over a horizontal line.

Nolan Fehr
President